

Radio Amateur is Among Nobel Prize in Chemistry Winners

A California radio amateur and ARRL member was among the three winners of the Nobel Prize in chemistry. William Moerner, WN6I, of Los Altos, a chemistry professor at Stanford University, will share the prestigious award equally with two other researchers — Eric Betzig and Stefan Hell — for their work in high-resolution microscopy or nanoscopy. For many years scientists had believed that an optical microscope could never yield better than 0.2 micrometer resolution. The three scientists overcame that limitation through what the Nobel panel called “the development of super-resolved fluorescence microscopy.”

Moerner holds a PhD from Cornell University and is the Harry S. Mosher Professor in Chemistry and Professor, by courtesy, of Applied Physics at Stanford University. The prizes will be awarded in Stockholm on December 10, the date that prize founder Alfred Nobel died in 1896. — Thanks to Dave Leeson, W6NL; Stanford University and QRZnow.com

Morse Code Closer to Protection

Via Amateur Radio Victoria

The latest to officially join the push to add Morse code to the UNESCO list of Intangible Cultural Heritage is Germany.

The General Conference of the United Nations Educational, Scientific and Cultural Organisation (UNESCO) has noted that no binding multilateral agreement exists for the safeguarding of the intangible cultural heritage.

UNESCO proposes the list to be a counterpart to its World Heritage Program that catalogues 962 names, and conserves sites of importance to humanity.

It now wants to protect and raise awareness of Intangible Heritage which includes the practices, knowledge,

The Second Great Antenna Shoot Out

Bill Unger VE3XT

You may remember a while back we had the first Great Antenna Shoot Out at 55+ on River Street. That time we tested various slopers, verticals and loop antennas. We would call CQ and then use the Reverse Beacon Network to see the various signal strength levels of our transmissions. For more information on the Reverse Beacon Network here is a link: <http://www.reversebeacon.net/>

We hope to do it again on Sunday, November 16 at 55+ on River St. from 2 to 5 PM weather permitting. However, unlike the Edmund Fitzgerald we will not be going out in the "Gales of November". If the weather is inclement we will postpone it a week until Sunday, November 23 at the same times.

If you have a portable antenna you want to try bring it along and we will supply the radio and mast to hoist it up on.

Hope to see you there.

Bill XT

skills, human creativity, objects, spaces, history an associated activity.

International Amateur Radio Union (IARU) member society, the Duestcher Amateur Radio Club, urged the IARU Region 1 conference in Sun City, South Africa, to take action on the subject.

The IARU Region 1 then distributed forms to all its member associations and asked them to consider fostering eligible applications the UNESCO before the deadline.

UNESCO is checking applications, which now includes the Cabinet of Germany, and may include Morse code to its list in November 2014 at its general assembly meeting in Paris.

LARC SENATE

Robert Hansen VE3RVA
Dave Kimpton VE3AVS
Laurie Bridgett VE3BCD
Terry Stewardson VA3LU
Ed Baumann VE3SNW

LARC EXECUTIVE

President: Randy Gottfred VA3OJ

**Vice President: Robert Hanson
VE3RVA**

Treasurer: Bill Unger VE3XT

Secretary: Karl Hamilton VE3RRP

**Board Member: Mike Skillen
VE3EDX**

**Board Member: Andy Malcom
VE3INI**

**Board Member: Lori Bedford
VE3VAI**

**Board Member: Ed Baumann
VE3SNW**

LARC Emergency Coordinator

Brad Harris VE3MXJ 767-0628

**ARES District Emergency
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VE3FAL Fred Lesnick 577-0789

CANWARN

**VA3JMS John 767-3631
VE3MXJ Brad 767-0628**

Public Service Events

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ABOUT US

The Lakehead Amateur Radio Club (LARC) is an incorporated not for profit group of amateur radio operators in the Thunder Bay area that meet for self education, community service and fellowship. Our meetings are the second Thursday of the month at room 191 McIntyre Building, Confederation College, 7:30 PM. Our postal address is 1100C Memorial Ave. Suite 184, Thunder Bay, Ontario P7B 4A3. This newsletter is published monthly except for July and August by Ed Baumann VE3SNW and questions and submissions may be emailed to ve3snw@shaw.ca

Nets in the Thunder Bay Area

Sunday AMETHYST ARES VHF NET, on VE3TBR 146.820- pl 107.2 IRLP Ref. # 9031 @ 0045Z (7:45 pm), also Cook County ARES Response Team (CARRT) net at 0100Z (8 pm) on the BWARC repeater, Grand Portage repeater - 146.655 with CTCSS 151.4

Monday SATERN NET on VE3TBR 146.820- pl 107.2 IRLP Ref. # 9032

SATERN DIGITAL NETS on **Monday & Wednesday** nights

8 pm- 14.065

9 pm- 7.065

10 pm- 3.5835

Mode :Olivia 8/500 1000Hz waterfall centre

Every Day The NORTHWESTERN ONTARIO ARES NET , every evening at 8:15PM (local) on 80m 3.750Mhz (note the time does not change with daylight savings time.)

Any questions on these or other nets please feel free to contact me at my e-mail: ve3mxj@rac.ca

LARC OPEN ACCESS REPEATERS

VE3YQT(Mount Baldy)147.060 (-600) Phone Patch

VE3TBR (St. Joseph's) 146.820 pl 107.2

**442.075 (+5 MHz)pl 100
144.390 APRS**

VE3UPP Upsala 145.470 (-600)

Jamboree On The Air 2014

.....Fred Lesnick, VE3FAL

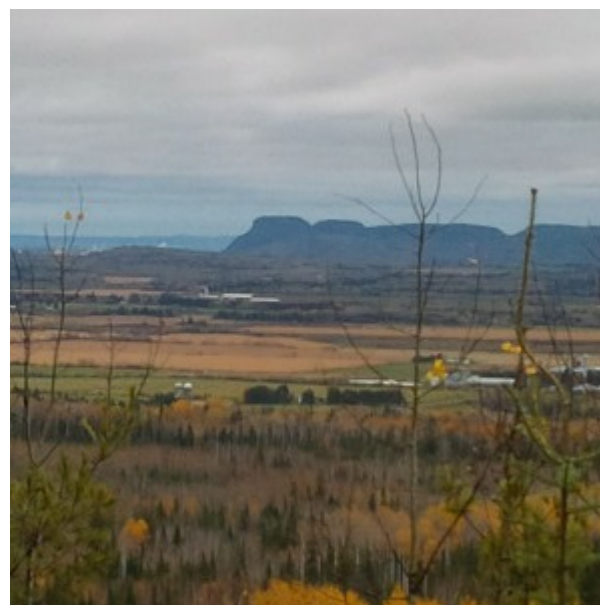
This weekend was JOTA, and this was the 17th year that Gary VE3ODE, Carl VE3DG and myself Fred VE3FAL have put JOTA on for some of the Otters, Beavers and Scouts in the rural area of Thunder Bay. Each year is a new location with which involves a hike and radio operations. This year we were in Oliver Paipoonge at Scouter Jerry's home location, on his 90 acre property he has a hilltop with trails right to the top, it is about a 20 minute hike up with a backpack. Gary and I hauled our gear up in a buggy I made with gear in a tote, took us about 45 minutes to get the stuff up. A hike was done in the afternoon by the Otters and Beavers and the Scouts spend the night as well, so in our tents we braved the -2c temperatures once again, this morning though was only thick frost and no snow. For the Otters I put on one of my manpack radios and went down the trail to talk with them, we used an open 10 meter frequency and answered many of their questions and explained how amateur radio worked. The Beavers made a few contacts with various stations around the country. The Scouts also worked stations from Coast to Coast with the best contact being into Saskatchewan with clear signals in the evening on 20 meters.

We were operating a Icom-703 at 10 watts into a windom antenna, it worked very good and of course running on battery power the entire weekend.

Campfire building skills were also part of the day and so were opening and closing ceremonies.

In total over the 2 days we had 17 participants as well as parents and leaders at the site.

Many thanks to Scouter Jerry and his family, Scouter James, Gary, Carl and the rest of the gang for a great spot and good weekend.



Daytime View from Operating Position



Inside Operations Tent, this is Carl VE3DG



Scouts enjoying a fire, city lights in the background

Lakehead Amateur Radio Club

October 2014 Treasurers Report

Balance October 1 2014	\$1,753.30
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Income

Oct 10 Dues 7 Full Members	\$245.00
Oct 10 50/50	\$3.50

Total Income	\$248.50
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Expenses

Total Expenses	\$0.00
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Balance October 31, 2014	\$2,001.80
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Trailer Account

Previous Balance	\$785.46
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Income

October 31 Interest	\$0.07
total	\$785.53

Expenses

Total Expenses:	\$0.00
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Balance in Trailer Account	\$785.53
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Term Account

Balance September 01 2014	\$2,038.49
September 30 2014	\$0.67
Balance September 30 2014	\$2,039.16

Bill Unger VE3XT
Treasurer

Minutes for the Lakehead Amateur Radio Club

Date: October 9, 2014

Vice President, Robert Hanson VE3RVA Presiding.

Guest Speaker:

Doug McCormick VE3EFC gave a talk about password security, how to choose secure passwords, and the Last Pass program for easy password management. www.lastpass.com

Treasurer's Report: Bill Unger VE3XT

Bill Unger VE3XT moved to accept the treasurer's report as printed in Hi-Q. Seconded by Glen Wallace, VE3ICY. Passed Unanimously

Minutes of Previous Meeting:

Karl Hamilton VE3RRP moved to accept the September's meeting's minutes as emailed. Seconded by Norm Bell VE3XRC. Passed.

Old Business:

Public Service (Karl Hamilton for John Sacek VA3JMS public events coordinator)

Past Events:

**September Caribou Bike Ride Sunday September 14 September Thunder Bay
Marathon, Sunday September 21 CIBC Run for the Cure Sunday October 5**

Upcoming Events:

**Santa Claus Parade, November 15, Bob VE3RVA, Norm VE3XRC coordinators Santa Shuffle,
December, Bob VE3RVA coordinator, looking for 3 volunteers**

**CANWARN John Sacek VA3JMS no activity
ARES Brad Harris VE3MXJ Thunder Bay EC**

Tuesday night VHF Net on VE3YQT is now cancelled
Sunday night NW ON Amethyst VHF net on VE3TBR, IRLP Reflector 9031, 7:45 ET Daily NW ON HF
3750 Khz, 8:15 ET if an operator is available
SET October 4th

Karl VE3RRP reported on the SET from his perspective
operating portable from Shuniah Fire. He also circulated the
email sent to Brad Harris VE3MXJ from the Shuniah Fire
Chief. The chief was impressed with our ability to
communicate directly with Thunder Bay Fire and the PEOC
in Toronto.

RAC Report Bill Unger VE3XT No news

Repeater News

Randy Gottfred VA3OJ, Terry Stewardson VA3LU

No news

Club Trailer:**Bob Hansen VE3RVA**

Bob VE3RVA reported the roof being patched. He delivered a second invoice to the Intercity Mall for their current sign on the trailer. He is looking for an indoor space to store the trailer for the winter.

2 Day Weekend License Course

Bill Unger VE3XT reported his plans to be away in January and February. Along with Bill, volunteers for instructors are Bob VE3RVA, Doug VE3EFC, Karl VE3RRP, and Chris VA3TBA who is available on Saturdays only.

New Business

50/50 Draw: Norm Bell VE3XRC

Adjournment moved by: Norm Bell VE3XRC

Next Executive Meeting: November 6, 2014, 7:30 PM

Next LARC Meeting: November 13, 2014, 7:30 PM

North East Ontario Directors Report for the Second Last Time.

Yes my time as Director is coming to an end and this will be my second last report to you.



Would you like know what it's like to be a DX station on the other side of a huge pileup and never have to leave your QTH? Well here is your chance. Starting on November 1st and continuing until the 3rd for the CW part and then on November 15th until the 17th for SSB it's the ARRL Sweep Stakes contest. Many serious contesters try to work all 80+ sections in North America to earn a clean sweep. Since Ontario was divided up into 4 sections a few years ago ONN and ONE are sought after sections. The exchange is a bit long but not that difficult with a bit of reading. For more information check out this link: <http://www.arrl.org/sweepstakes>

While I'm thinking of contests remember the RAC Winter Contest is also coming up on December 27th. Complete rules will be posted on the RAC Website closer to the date. Listen for VE3XT/VE6 running QRP again this year.

The Board of Directors (BoD) again this year has approved several Scholarship grants to Canadian Amateurs who are studying Science, Technology, Engineering and Mathematics programs at the Post Secondary level. Watch for a bulletin coming out soon. Again another example how Canadian Amateurs are helping promote bright young Canadian Amateurs pursue their dreams. Thanks if you helped. I plan to carry on as the contact person for the Scholarship program after I "retire" from the BoD so if you want to help or know of a Canadian Amateur who would benefit from this program please contact me.

If you have any questions or concerns please email me at ve3xt@rac.ca

Bill VE3XT

Why Ham Operators Should Consider 3D Printing

By Mike Grauer Jr.

As a member of the ham radio community, I have always been fascinated by the maker mindset which has existed since the early days of radio. From making radio equipment from scratch, to kits and even modifying commercially available equipment, the maker movement and radio go hand in hand.

The 3D printing community shares many traits with the ham radio movement. At the heart of it all is making, creating and inventing. And just like ham radio operators, those involved with 3D printing are constantly learning new technical skills that can be used in other areas of our lives.

Here are just a few ways ham radio operators can use 3D printing:

1. Creating custom project boxes: In the past, if you needed a box for a ham radio project, it had to be a prefabricated, one size fits all box. Now you can create a box that fits your project's needs with custom holes for all the connectors.

2. Print custom extruders: With the advent of paste extruders, you can print your own custom insulators. There are also 3D printing services that print in metal, making it easier to 3D print bespoke metal parts. A lot of research is being done on printing electronics. This could make it easy to not only design your own radios and radio accessories, but also print them.

3. Print replacement parts: You could use 3D printing to print replacement parts. If you want a new dial for your radio, you can simply print it to suit your own specifications. Or perhaps, you need a new bracket for your microphone? Again, why not print it and save both money and the hassle of finding the right part. You could also recreate plastic parts for radios that are no longer being made. With 3D printing, the possibilities really are endless.

4. Cultivate a love for making things: With both the open source 3D printing movement and ham radio, we learn how to make things. Cultivating an appreciation for 3D printing will provide you with a good basis for ham radio. You'll learn everything you need to know about making, and that's all you need to get started with ham radio.

5. Reach out to the 3D printing community: Like ham radio, the Reprap community is extremely active and is always encouraging new hobbyists to join. From the guys who have basic skills to the most advanced people who could design new electronics in their sleep, the 3D printing community is thriving. Many of them

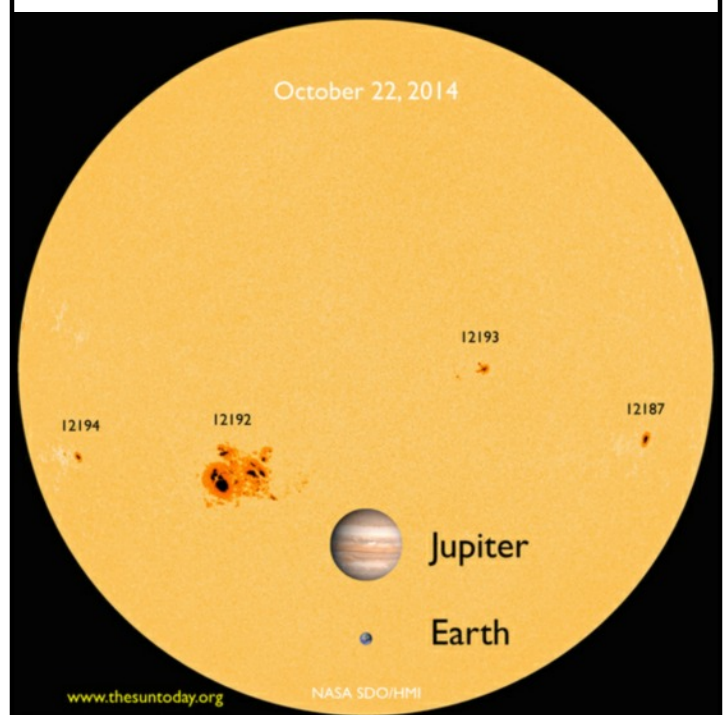
might also be interested in 3D printing. Why not reach out to the 3D printing community? Who knows, if you combine 3D printing and ham radio you might be able to attract young blood.

3D printing can be a major resource for ham radio. Both to help build a new skillset and as a resource for teaching technical skills. In addition to getting more people interested in ham radio, this could inspire makers to invent new ham radio gadgets. It's up to ham operators to embrace this ever-evolving technology and use it to their advantage....via <http://www.inside3dp.com>

The biggest sunspot to grace the face of the sun in more than two decades just rotated out of Earth's view, but it was responsible for kicking up some truly amazing solar activity this week.

The sunspot (called Active Region 12192 or AR 2192) shot off four powerful flares in four days recently, with many more smaller flares sprinkled in as well. The sunspot region was about the size of the planet Jupiter and is the largest solar flare observed in 24 years.

AR 2192 was actually one of the biggest observed sunspots of all time, ranking 33rd largest of 32,908 active regions since 1874, according to NASA scientists C. Alex Young and Dean Pesnell. <http://www.space.com>





November 2014

M	T	W	T	F	S	S
					1	2
3	4	5	6	7	8	9
10	11 Remembrance Day	12 QRP Fox Hunt	13	14 LARC Meeting at Confederation College	15 ARRL Sweepstakes	16
17 Run for the Bacon QRP Contest	18	19	20	21	22	23
24	25	26 SKCC Sprint	27	28	29 CQ World Wide	30